National Outcome Measures (NOMs)

Carol J. Evans
Christine Owens
Liz Sale
Ginny Weil

Missouri Institute of Mental Health

NOMs Matrix

DOMAIN	OUTCOME	MEASURES		
		Treatment		Prevention
		Mental Health	Substance Abuse	Substance Abuse
Abstinence	**Abstinence from Drug/Alcohol Use**	NOT APPLICABLE	Reduction in/no change in frequency of use at date of last service compared to date of first service ▶	30-day substance use (non-use/reduction in use) ▶
				Perceived risk of use
				Age at first use ▶
				Perception of disapproval
	Decreased Mental Illness Symptomatology	Under Development	NOT APPLICABLE	NOT APPLICABLE
Employment/ Education	**Increased/Retained Employment or Return to-Stay in School**	Profile of adult clients by employment status and of children by increased school attendance ▶	Increase in/no change in number of employed or in school at date of last service compared to first service ▶	ATOD suspensions and expulsions; workplace AOD use and perception of workplace policy

NOMs Matrix

DOMAIN	OUTCOME	MEASURES		
		Treatment		Prevention
		Mental Health	Substance Abuse	Substance Abuse
Crime and Criminal Justice	**Decreased Criminal Justice Involvement**	**Profile of client involvement in criminal and juvenile justice systems**	**Reduction in/no change in number of arrests in past 30 days from date of first service to date of last service** ▶	**Drug-related crime; alcohol-related car crashes and injuries**
Stability in Housing	**Increased Stability in Housing**	**Profile of client's change in living situation (including homeless status)** ▶	**Increase in/no change in number of clients in stable housing situation from date of first service to date of last service** ▶	**NOT APPLICABLE**
Access/ Capacity	**Increased Access to Services (Service Capacity)**	**Number of persons served by age, gender, race and ethnicity** ▶	**Unduplicated count of persons served; penetration rate – numbers served compared to those in need** ▶	**Number of persons served by age, gender, race and ethnicity**

NOMs Matrix

DOMAIN	OUTCOME	MEASURES		
		Treatment		Prevention
		Mental Health	Substance Abuse	Substance Abuse
Retention	**Increased Retention in Treatment – Substance Abuse**	NOT APPLICABLE	**Length of stay from date of first service to date of last service** ▶ **Unduplicated count of persons served** ▶	**Total Number of evidence-based programs and strategies**
	Reduced Utilization of Psychiatric Inpatient beds – Mental Health	**Decreased rate of readmission to State psychiatric hospitals within 30 days and 180 days** ▶	NOT APPLICABLE	NOT APPLICABLE
Social Connectedness	**Increased Social Supports/Social Connectedness (*2)**	**Under Development**	**Under Development**	**Under Development**

NOMs Matrix

DOMAIN	OUTCOME	MEASURES		
		Treatment		Prevention
		Mental Health	Substance Abuse	Substance Abuse
Perception of Care	**Client Perception of Care (*1)**	**Clients reporting positively about outcomes ▶**	**Under Development**	**NOT APPLICABLE**
Cost Effectiveness	**Cost Effectiveness (Average Cost) (*1)**	**Number of persons receiving evidence-based services/number of evidence-based practices provided by the State**	**Number of States providing substance abuse treatment services within approved cost per person bands by the type of treatment**	**Increase services provided within cost bands within universal, selective and indicated programs**
Use of Evidence-Based Practices	**Use of Evident-Based Practices (*1)**		**Under Development**	**Total number of evidence-based programs and strategies**

Implications for Missouri

- Standardize prevention data collection and reporting on NOMs

- Set up the process for reporting through a pilot project this Winter

- Require full participation from prevention providers for FY07

NOMs Development

- Field test: October 2005 (St. Louis)
- Pilot test: January to June 2006 (Selected sites throughout state)
- Full Implementation: October 2006 (State-wide participation)

Pilot site selection criteria

Level of Community Readiness

Data collection & Reporting (MDS, Prevention Experience)	Urban	Rural
High		
Medium		
Low		

Purpose of pilot project

- To get feedback from providers
  - Data collection manual
  - Consent process
  - Instrumentation
  - Data reporting processes
  - Training process
- To set up and get feedback to insure data quality once implemented

Missouri Data Sources for NOMs

- Missouri Student Survey (will be administered to 524 school districts in February 2006)
- Individual DMH-funded Prevention Provider activities

Instrumentation

- Common instrument across all sites
- Scannable forms

Data elements for Prevention Providers

- Abstinence Domain
  - 30 day substance use
  - Perceived risk of use
  - Age at first use
  - Perception of disapproval

Data elements (continued)

- Employment/Education
  - Measures for youth
    - Self-reported ATOD-related suspensions and expulsions from school
    - School bonding
  - Measures for adults
    - Workplace ATOD use
    - Perception of workplace policy

Pilot project activities – Step 1

- ADA/Evaluators
  - Nominate sites
  - Seek agreement

- Providers
  - Review requirements
  - Agree to participate

Pilot project activities – Step 2

- Evaluators
  - Provide data collection manual
  - Conduct training
  - Distribute sample pre-/post test instruments

- Providers
  - Attend training
  - Provide feedback re training process

Pilot project activities – Step 3

- Evaluators
  - Provide technical assistance as needed
  - Distribute pre/post test to field

- Providers
  - Obtain consent
  - Implement pre-/post testing process
  - Call for technical assistance if needed
  - Provide feedback on testing process

Pilot project activities – Step 4

- Evaluators
    - Collect pre-/post test instruments
    - Scan forms,
    - Conduct analysis
    - Write report

- Providers
    - Return instruments
    - Receive and review report
    - Provide report feedback
    - Provide feedback on overall procedures and written report

Measures and Items

Measures and Items to be Used

- Standardized instruments across all programs
- Using pre-existing scales from national studies (GPRA)
- Separate instrumentation for younger youth (under 9)
- Need to pilot test instruments to be sure they are
  - Age appropriate
  - Culturally appropriate
  - Gender appropriate

Advantages of Collecting Standardized Data

- Baseline data provide information regarding target population

- Can compared with statewide data (Missouri Student Survey, NSDUH data)

- Can compare with national data
    - Monitoring the Future
    - NSDUH
    - Youth Risk Behavior Surveillance

- Can quantitatively assess pre/post differences if evaluation is not currently in place

Proposed Areas to be Assessed in Prevention

- Abstinence
  - 30-day substance use
    - Cigarettes, alcohol, marijuana
    - Other illegal drugs
    - Binge alcohol use
  - Lifetime substance use
  - Age of first use
  - Perceived risk of use
  - Perception of disapprovalSuspensions/expulsion from school
  - School bonding

Sample Items
30-day Cigarette Use

- How frequently have you smoked cigarettes in the last 30 days?

1	Not at all
2	Less than one cigarette per day
3	One to five cigarettes per day
4	About one-half pack per day
5	About one pack per day
6	About one and one-half packs per day
7	Two packs or more per day

30-day Alcohol Use

- On how many occasions during the last 30 days have you had alcoholic beverages to drink (more than just a few sips)?

1	0 occasions
2	1 to 2 occasions
3	3 to 5 occasions
4	6 to 9 occasions
5	10 to 19 occasions
6	20 to 39 occasions
7	40 or more occasions

Binge Drinking

- On how many occasions during the last 30 days (if any) have you been drunk or very high from drinking alcoholic beverages?

1	0 occasions
2	1 to 2 occasions
3	3 to 5 occasions
4	6 to 9 occasions
5	10 to 19 occasions
6	20 to 39 occasions
7	40 or more occasions

30-day Marijuana Use

- On how many occasions during the last 30 days (if any) have you used marijuana (grass, pot) or hashish (hash, hash oil)?

1	0 occasions
2	1 to 2 occasions
3	3 to 5 occasions
4	6 to 9 occasions
5	10 to 19 occasions
6	20 to 39 occasions
7	40 or more occasions

Substance Use Among Large Multi-Site Study and National Random Sample
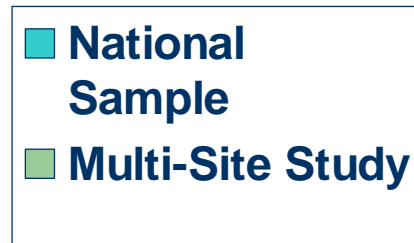## *(Percent who use)*

Age	Cigarettes		Alcohol		Marijuana	
	NHSDA	HRY	NHSDA	HRY	NHSDA	HRY
12-13	8.0%	9.6%	4.9%	11.3%	1.7%	5.8%
14-15	18.2%	32.8%	20.9%	31.2%	8.8%	27.0%
16-17	29.3%	51.4%	32.0%	46.4%	14.7%	46.7%

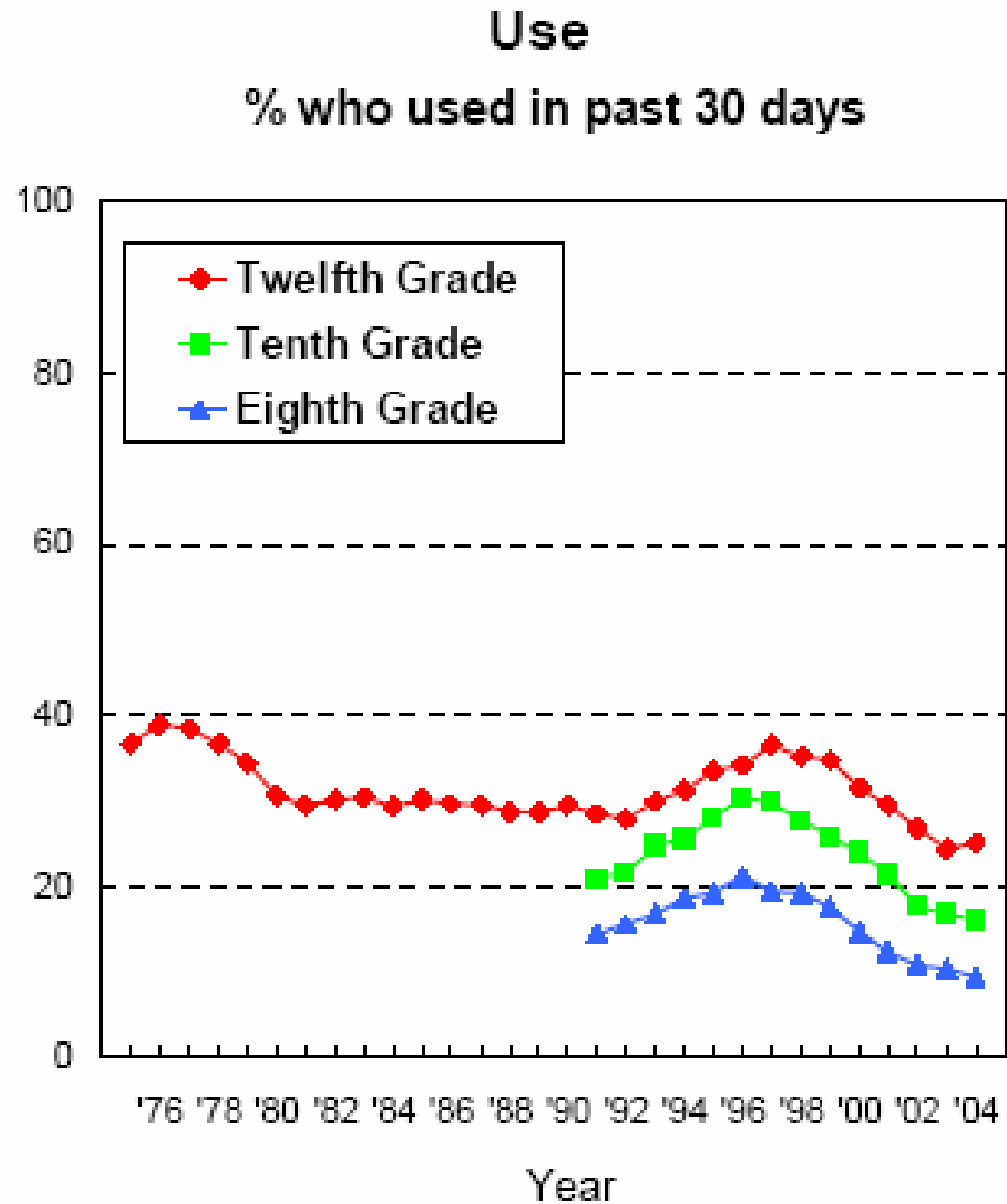Note: NHSDA: National Household Survey on Drug Abuse
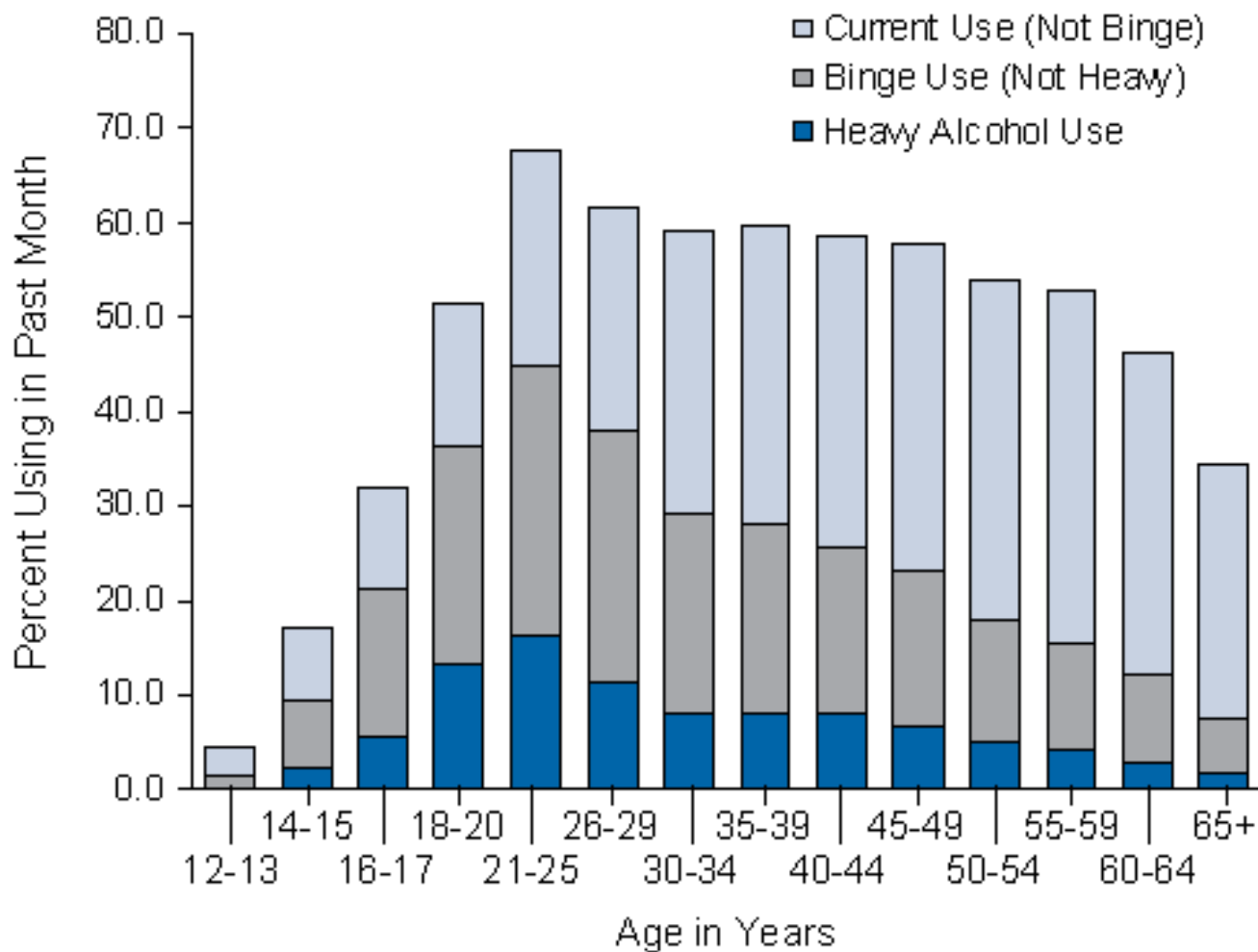
Comparison of Cigarette Use Rates: 12-17 Year Old Youth
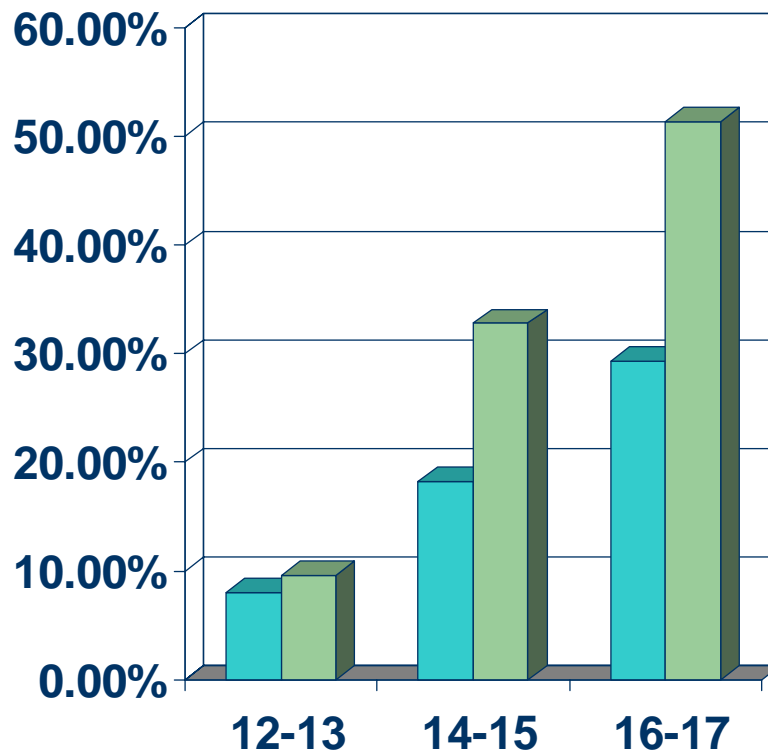
Percentage of 14-17 Year old youth using cigarettes much higher in the study sample than the national sample

Chart: Cigarette use rates by age group

Age Group	National Sample	Multi-Site Study
12-13	~8%	~9%
14-15	~18%	~32%
16-17	~29%	~51%

Y-axis: 0.00% to 60.00%

Legend: National Sample, Multi-Site Study

Cigarette Use: Trend Data (MTF)

Use
% who used in past 30 days

Current Binge and Alcohol Use by Age (NSDUH; 2003)

Age of First Use

- **How old were you the <u>first time</u> you smoked part or all of a cigarette?**

- **How old were you the <u>first time</u> you had a drink of an alcoholic beverage? Please do not include any time when you only had a sip or two from a drink, or anything you had to drink for religious purposes.**

- **How old were you the <u>first time</u> you used marijuana or hashish?**

- **How old were you the <u>first time</u> you used any other illegal drugs?**

Perceived Risk of Use

- How much do you think people risk harming themselves (physically or in other ways) if they:
    - Smoke one or more packs of cigarettes per day
    - Try marijuana once or twice
    - Smoke marijuana regularly
    - Take one or two drinks of an alcoholic beverage (beer, wine, liquor) nearly every day
    - Drink five or more drinks once or twice each weekend

Risk of Smoking Cigarettes (MTF)

Risk

% seeing "great risk" in smoking a pack or more per day
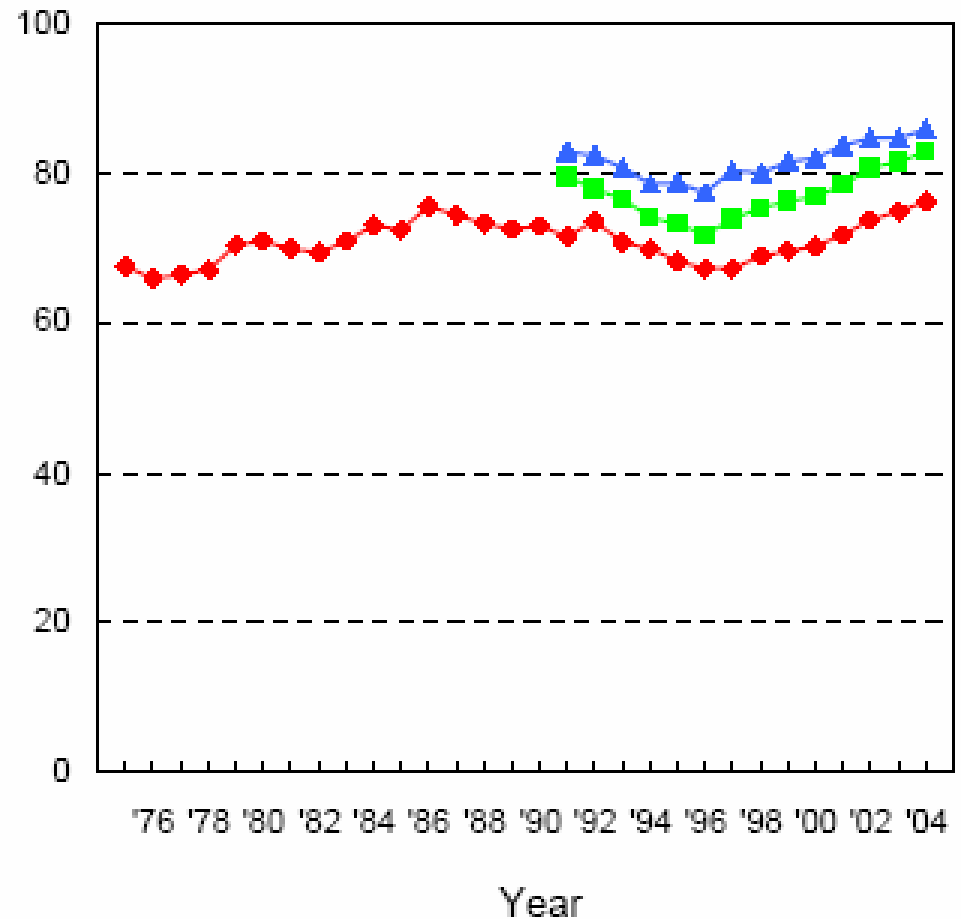

Year
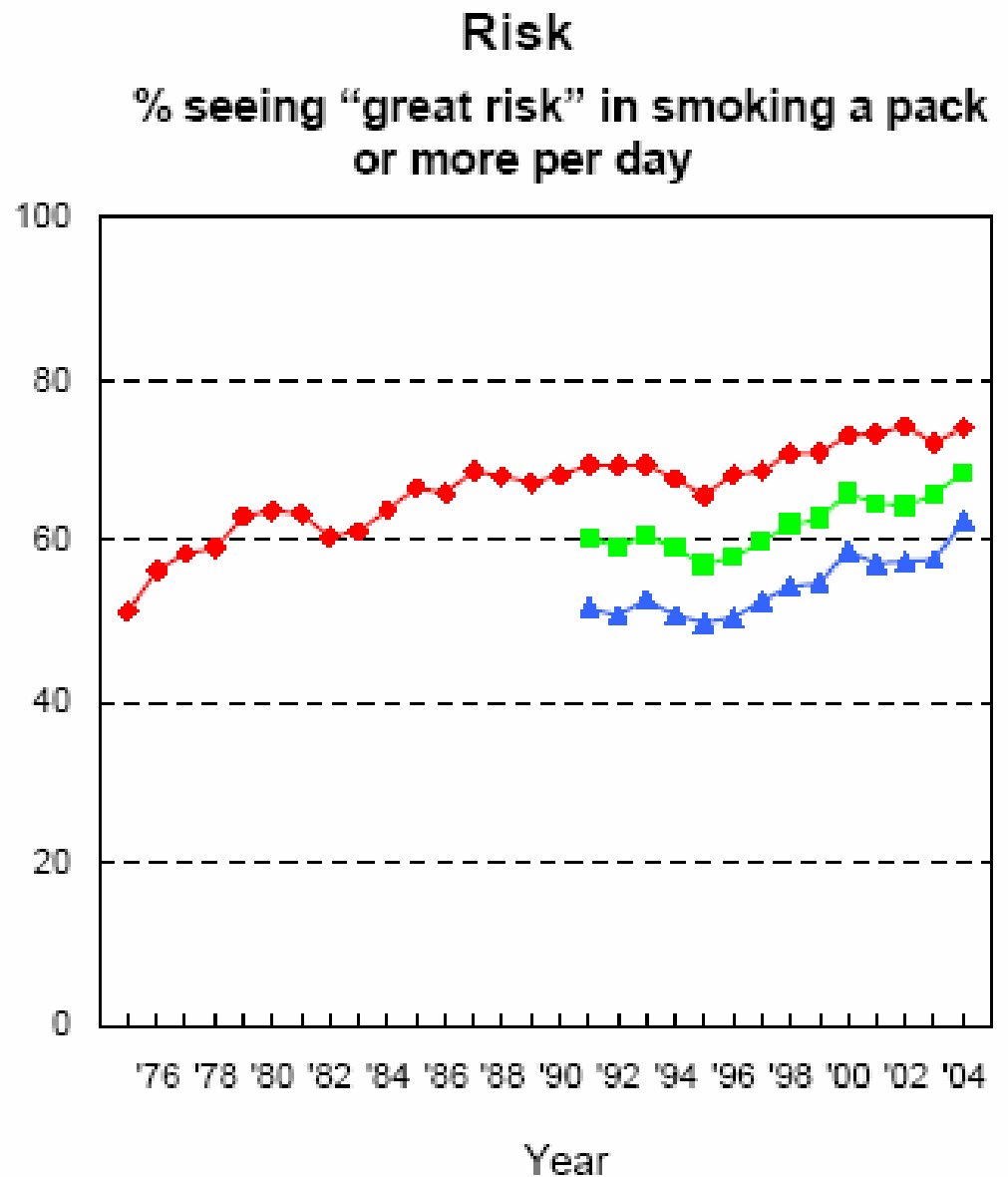
Perceived Disapproval

- **How wrong do you think it is for someone your age to:**
  - **drink beer, wine or hard liquor (for example, vodka, whiskey or gin) regularly?**
  - **smoke cigarettes?**
  - **smoke marijuana?**
  - **use LSD, cocaine, amphetamines or another illegal drug?**

Disapprove of Cigarettes (MTF)

Disapproval
% disapproving of smoking a pack or more per day

Perceived Parental Disapproval

- How wrong do your parents feel it would be for you to:
  - Drink beer, wine, or hard liquor (for example, vodka, whiskey, or gin) regularly (at least once or twice a month?
  - Smoke cigarettes?
  - Smoke marijuana?
  - Steal anything worth more than $5.00?
  - Draw graffitti, write things, or draw pictures on buildings or other property (without the owner's permission)?
  - Pick a fight with someone?

Proposed School Bonding Items (Missouri Student Survey)

Teacher/Student Relationships

- In my school, students have lots of chances to help decide things like class activities and rules.

- Teachers ask me to work on classroom projects.

- My teacher(s) notices when I am doing a good job and lets me know about it.

- My teachers praise me when I work hard in school.

- There are lots of chances for students in my school to talk with a teacher one-on-one.

- I have lots of chances to be part of class discussions or activities.

School Performance

- **Putting them all together, what were your grades like last year?**

- **During the last four weeks of school, how many whole days of school have you missed?**

- **Are your school grades better than the grades of most students in your class?**

School/Parent Relationships

- **The school lets my parents know when I have done something well.**

School Attachment

- **Now thinking back over the past year in school, how often did you enjoy being in school?**

- **How often did you hate being in school?**

- **How often did you try to do your best work at school?**

- **How often do you feel that the school work you are assigned is meaningful and important?**

School Attachment (con't)

- **How interesting are most of your courses to you?**

- **How important do you think the thing you are learning in school are going to be for you later in life?**

- **There are a lot of chances for students in my school to get involved in sports, clubs, and other school activities outside of class.**

NOMs Implementation Timeline

	Oct 05	Nov	Dec	Jan 06	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct
Field Test	X	X	X										
Pilot				X	X	X	X	X	X				
State Wide													X